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glad that the Sprinces were af interest. After decerved y war favor requesting me to make obseivations upon the Ricians, Dused every means to aid in settling the sploitie diffuence of Pile and 1. E. Piera prenging. Palways found P. Parrys growing in wet or boggy grand along intercourses; except in two mistarces, test & found a winall ten (in good healthful an elevation of good two miles below congetono on the end.

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sol Griffith M. B. Atte is It soil was not quite so dig as in Its most places on the mountain I.c. sides. I econd, Found quite su a number af Parryes growing da high and dry in the sound on him The divide between the tros Livin Ark Lakes devation good. This bath Roots may havis been in pleuty before af mustine however. Inover saw ? Pareji glenning All higher than good but and true have surched for it all through one the mille. At Golden sie. 10 milis in 3 %. the fact hills & found P. P. Bestin granning at low down as 7000 3 st I found a number of trus of the same at Maniton in ala Octobes only about 100 to 150 P. P. feit abour the low along the The cruh in Engelmanns Cañon wo Elivation not over a 500°. This eve

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is the lowest I have ever sun if. sin Als geographical distribution: quite see it any where west of the voing ange. I alden was the norther on limit (of my travels) and the stom Arhansas the southun; in s both places & saw it as stated enty before. It occurred on the Ash for los miles belong Loundales ing Although I examined many A trus I found no variations ingte sin l'arryi, save what I sing your, and they sum very shight. in Flandestuding to P. Etimber-lim but never as a oben ooo of stunted bush. At lowest s å stitude (mountain form) was in akant 9000. never groning sort P. P. morroarying into it. the The typical form that I though anon was a new spicies has bluntes even ettere leaves and clustered

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comes. While the other form shas 2 alitary comes; bour handih The lawer frame I never saw but ance and that was below Enfine, Elevation 8300°. The mountain form I saw abundantly from Teorgeton to Leadwille. If the the difference of the two were to be decided by tealor ado specimen & am satisfied you will have no translite dicide, Kor They are emphatically unlike The I fra ganina I faind 3 miles bilow Denor on the Clatte ina dry water-hole. The heads of fruit were spheried hut I could not get the sucks to stay our, they seemed to be workly attached. I have no I did heads of fruit. have a very strange plant that call Swertig -? Kutuling different from S. perennis, Ducht to your inthe pockage, logether with other plant

Vica Engelmann en the Head writers of Roque Rover in the Cascale range of Origon, west of the Abride probelle i 4000 alt fishe



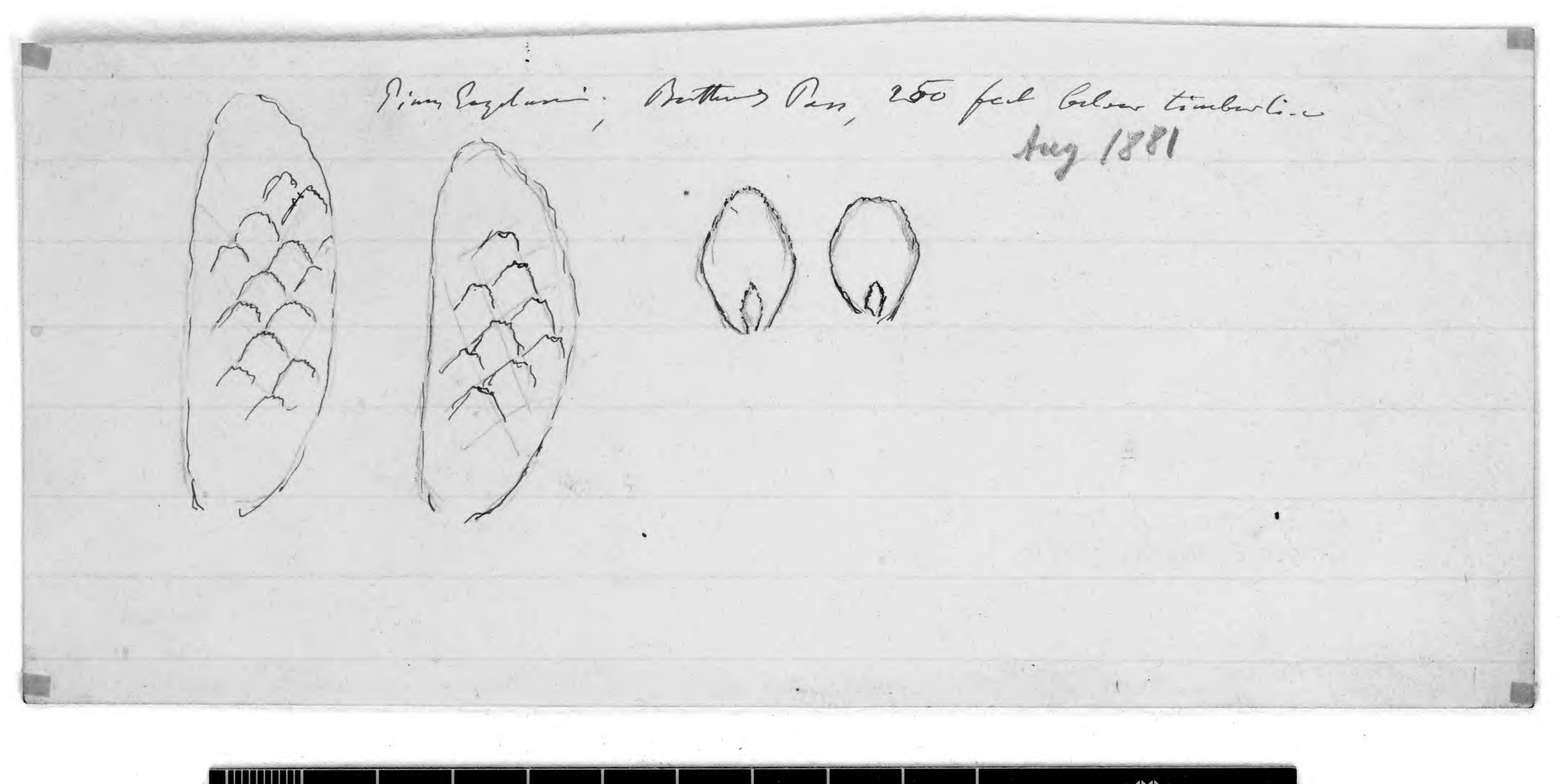




Hoca Engelmanni at Finberline the bank is someting quite white and smooth, is trus & foot or more in Sauter T. Sonalogee Alpine May 1880 Viren pungens at the highest allitude al alprine, J. Colomb. hur a lank or vet as 1. lagdow, en derstidle Sorly but more n'ofed the DEs. 7.1.68madyen 1880

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MISSOURI BOTANICAL copyright reserved cm GARDEN





MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS



You A. laylaning juil some has obles ryle Ince cover at the end of start bruncher, probably pendles with deeply notched scales.

Hagers & Carris of last year har oval cours scales not or sounds noted - postlevin unknow A. nign has ovel rower on short (/4 - 1 inch) recover permeter of (broklety lataral). rock Inteller. Grundlet, of a. nign publish or result a. Cylin , ferbrok a. Menyica sait & Maing. Is A. legale, a hybis of Menzini. augen ! Mayien has come at the east of That Growther puller with them. question of anin in A. Egel.? 2, position of anin in A. Egel.? 3 Graneblets alevans published. 4. Organs shoots with loager ene men slender leave,? 5- Whi difference of your legelieus & men ji I the real of thisme _ H Meant to.

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MERSSOURI BOTANICAL GARDEN chee The many & a Atte otters & as See hearth Medin

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Gardenen Chronole Ing 14 1877
page 42 The girl of their artiste in that John Barron ditrigensher! 1. Abies lagsbruanni Johnhis worthling for Outh votering i England four true plant 2. A. Commulata The glaceour or green spinous teaved plant our Colondo Menziesei!) 3. Mengieser [ven] of the west Coast, with a District variety; A Sitchery; * Jordon Vinetum, lest adrio p. 5 A Commutato lastatore, Engelmanni Sprice A. Engelmanni Varry; lewes thirty consto all around the Grandlets of who long, 4-512 nigit smooth, skapported shriftet on slightly curved of glecoones white colour." Coulonly portion of the seed lengs are glacerous - others are dell green or define Thates of gleccours the glecomes their hens sell at high price.)

to be so large as to be impossible to remove from the place where they were first felled. Looking at the logs as imported it seems wonderful that they could have been brought over the seas in sufficient quantity to make them remunerative.

As we before said, many are the lessons to be learnt from a visit to such places as our import docks. The time thus spent is certainly not wasted. F. R. F.

ABIES ENGELMANNI.

Your correspondents who have been trying to clear up this knotty point appear only to get deeper into the dilemma.

I went over to Knap Hill the other day, partly to see Mr. Waterer's very beautiful Rhododendrons, but principally to have a peep at the new Spruce, about which we have heard so much. When I saw it I immediately recognised a very old friend, which, rightly or wrongly, we have been selling for the last ten years under the name of Abies Engelmanni.

The plants which Mr. Waterer had under that name were so disfigured by spring frosts that they were very difficult to recognise, and I hesitated to express an opinion, although I had a very strong suspicion of what they were, which suspicion was thoroughly verified yesterday on comparing one of these plants (which Mr. Waterer at my request kindly forwarded to us) with a batch of plants in our possession.

In 1875 we purchased at Messrs. Stevens' auction

rooms two parcels of seed under the name of Abies Engelmanni; after a time we discovered that we had two distinct varieties, one lot being the Abies Engel-

Bandening Chronice puly 14

on such of Bakers Agave

1863, and I have come to the conclusion that the early growing worthless variety is the one intended. The plant there referred to as Picea Menziesii I fully believe to be the Abies Menziesii Parryana of M. André, or Abies commutata of M. Roezl.

And now I come to the gist of the matter. I must enter my protest against Abies Menziesii being mixed up in the controversy at all. Abies Menziesii, true, is a distinct species from either, and is not, that I am aware of, found in that locality, its babitat being in Northern California, and a variety of it very distinct although given by some authorities as a synonym, viz., Abies sitchensis being found as far north as the sland of Sitcha.

The leaves of Abies Menziesii are much longer, wider and thinner than those of the variety which I will call for convenience Abies commutata, a leaf cut in two and strongly magnified presents a totally different section. The leaves are much more thinly set, and only on the upper side of the branchlets, they are a vivid green above and glaucous beneath, whereas Abies commutata is rather more glaucous above than it is beneath.

The habit is totally different, and the growth of Abies Menziesii in one season is double that of Abies commutata; above all, the cones are dissimilar.

I have before me a cone of Abies Menziesii grown at Elvaston Castle, also a cone of Abies Menziesii pulled from a tree in the Rocky Mountains in Northern California by our Mr. Syme, likewise a cone of Abies commutata sent home by M. Roezl in 1874, which, from his letter, is undoubtedly the same as the plants referred to as growing in Denver city, and in Professor Sargent's garden at Brookline.

The cones of the two species differ considerably,

although I do not dispute that they are nearly allied. We have seedlings raised from seed sent out by M. Ortgies in 1875 through Messrs. Sander & Co. as Abies commutata, which we fully believe to be the right thing, but it is impossible to speak positively about such young plants. The question now is what is to be the name, as most certainly it is deserving of a name to itself, and should not be hung on to Abies Menziesii, from which it so much differs. John Barron, Elvaston Nurseries, Borrowash, Derby.

special trum, tour exum hues everything. There is no Je Land myfur jana H and soo lady, the has MISSOURI BOTANICAL GARDEN. GEORGE ENGELMANN PAPERS

this, this country, and perchance consumed by the population; we may also study tables of statistics, and express susprise at the mass of figures, but we have no idea of the actual bulk of any special product unless we happen to see a ship unloading, or, still better, pay a visit to the store buildings or warehouses of one of our great import docks.

These thoughts are brought to mind from what was seen in the course of an hour or two on a recent visit to the West India Docks. In the lofty warehouses rising from the landing quays of these extensive receptacles of foreign merchandise, are stowed property of almost fabulous value, and of course of great variety. One losty block is perchance filled with tea, another with coffee, and another with sugar, each one of these articles has in itself a history interesting enough, but, moreover, one that has been often told, and therefore it would seem that nothing new can be learnt or said about them. On the contrary many scraps of information can be picked up at these places, from the men in charge of the different floors, to each of which is allotted a special commodity, and though these men are from outward appearance working

men in the true sense of the word, it is re

markable the amount of intelligence displayed-

sugarbags often teeming with cockroaches. One particular kind of sugar attracted our attention, occurring as it did in lumps or masses apparently closely compressed, each mass or package being between 2 and 3 feet long by 18 or 20 inches wide, and 1 foot thick—these were sown up in a kind of coarse sacking, and we learnt that this particular kind of sugar was shipped from Odessa; this of course dispelled the notion of it being cane sugar, and went to prove its origin to be the Beet, which was conclusive upon testing a sample, which left in the mouth a strong earthy or rooty taste, lasting a long time. This sugar is of a fairly light colour, and is, it seems, now brought into England in considerable quantities for the purpose of clarifying and crystallising. A sample of sugar from the same port, and from the same plant, crystallised before exportation, was also shown to us, and this, though in very small crystals, was as white as ordinary lump or loaf sugar, illustrating the degree of di perfection attained in clarifying and crystallising sugar obtained from this source—a source, moreover, from whence we are fast obtaining our principal supplies, for statistics show that the produce of the Cane derived from all countries during the year 1876 amounted to 2, 140,000 tons, while that from the Beet

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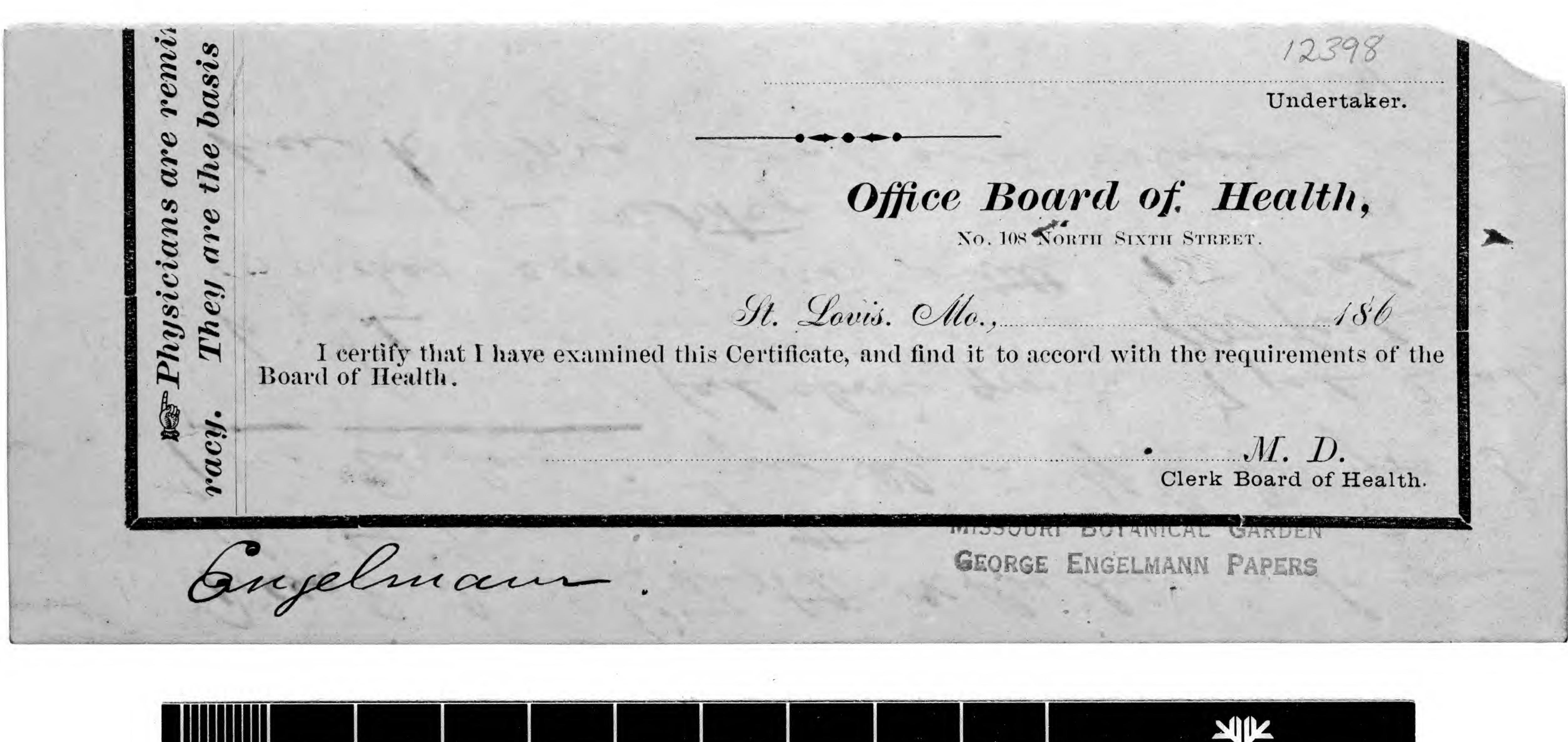
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vegetation became more luxuriant, Fig trees and

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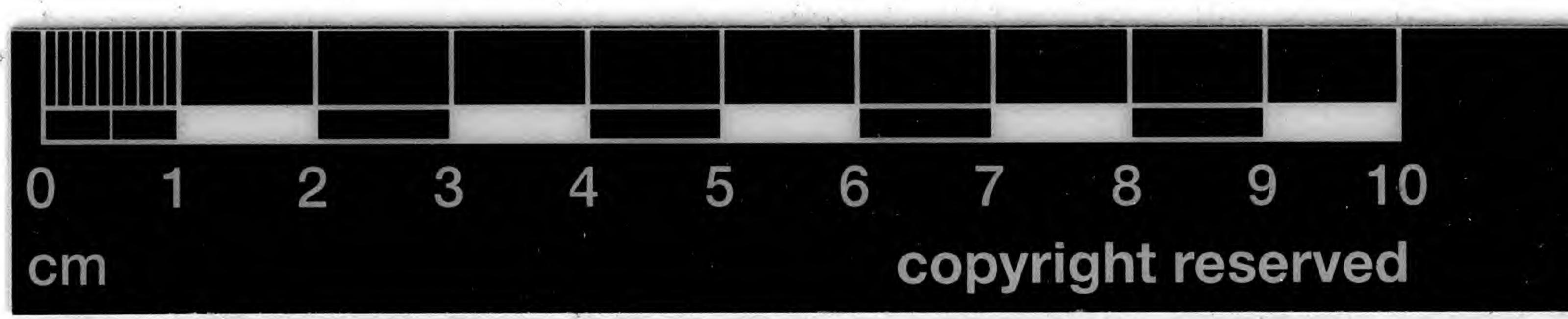
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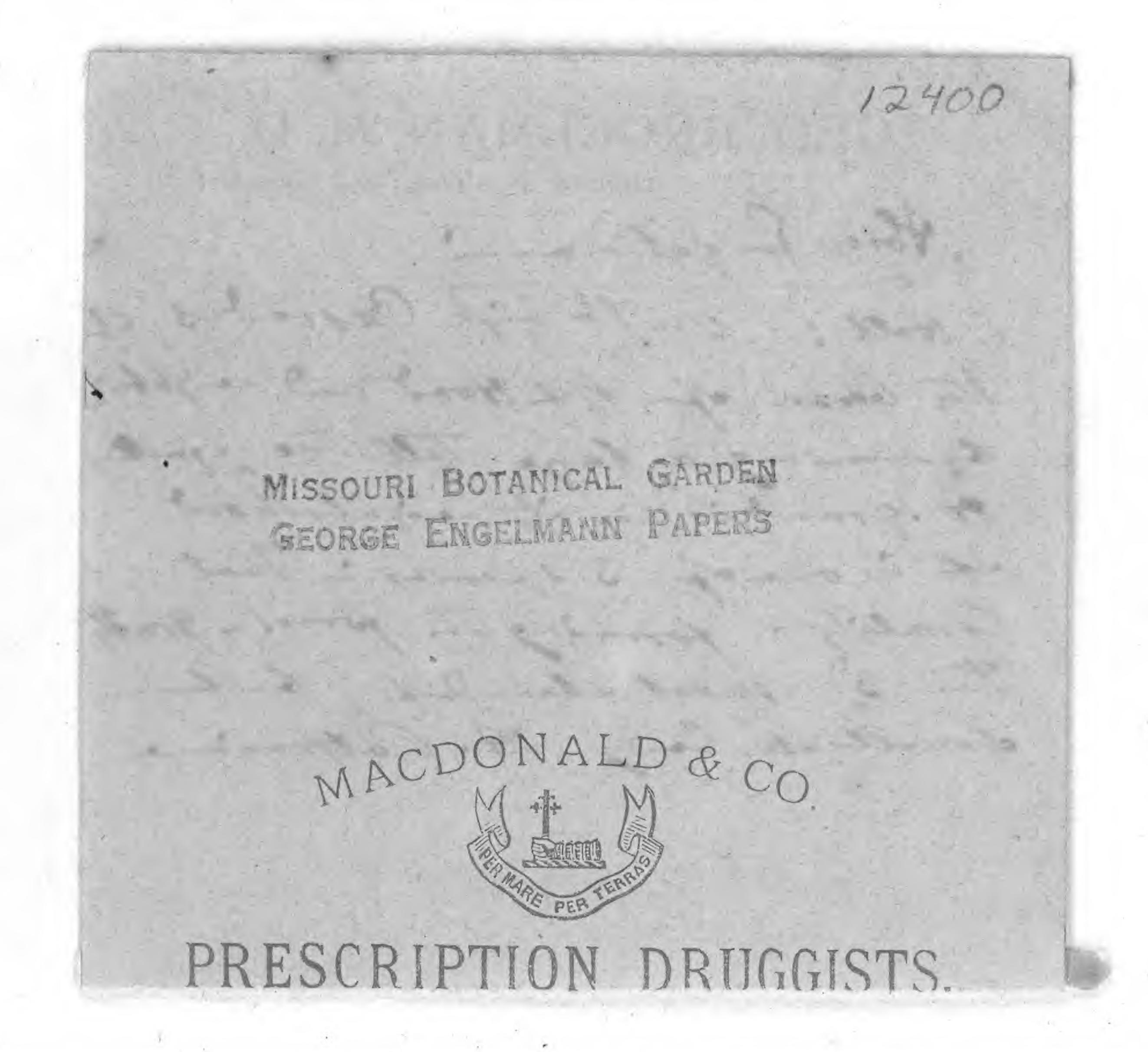
as you was our familes Dacter, in The time me lined in de Sauis from 59. To 61, your will recelect Louis Manger The ald freme h man deweler and i his



GEO. ENGELMAN, M. D. Office & Residence; 3003 Locust St. Hier Engelmani Ettell: on the Ligh Carrades of the Care of Met Hood and weighter berowing a lane, Tall tree equality A. grandistis its weighbothood It is and of 3 speries in that the 3 most about the forest of growth Smilled bary A. Pattonina y marchiely in a





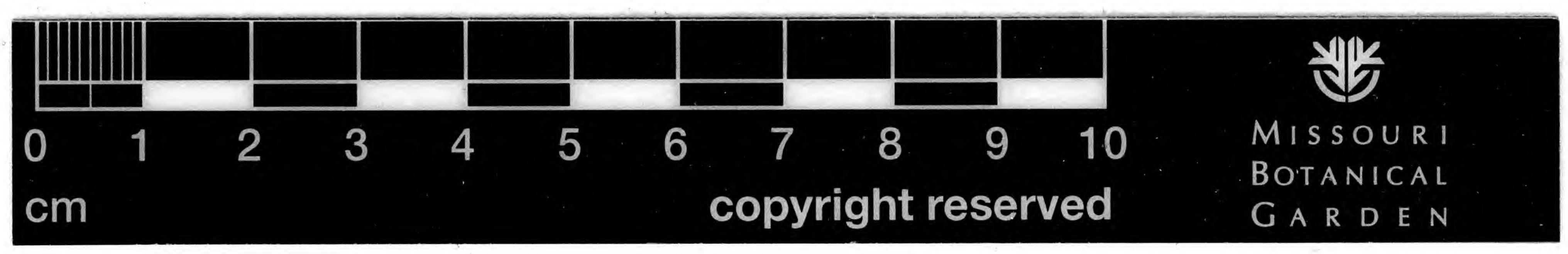




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lang fly 28 1872 Abies Meiziesi & A liegelmani can be casile distinguished as fan as they can be seen æride of leaves and comes. Alegelum" A- Menzieni stiff i and be gradeful. redish scale Back Brown, furnow persistent cood Little coarse forthe grant was agte & anto hinter

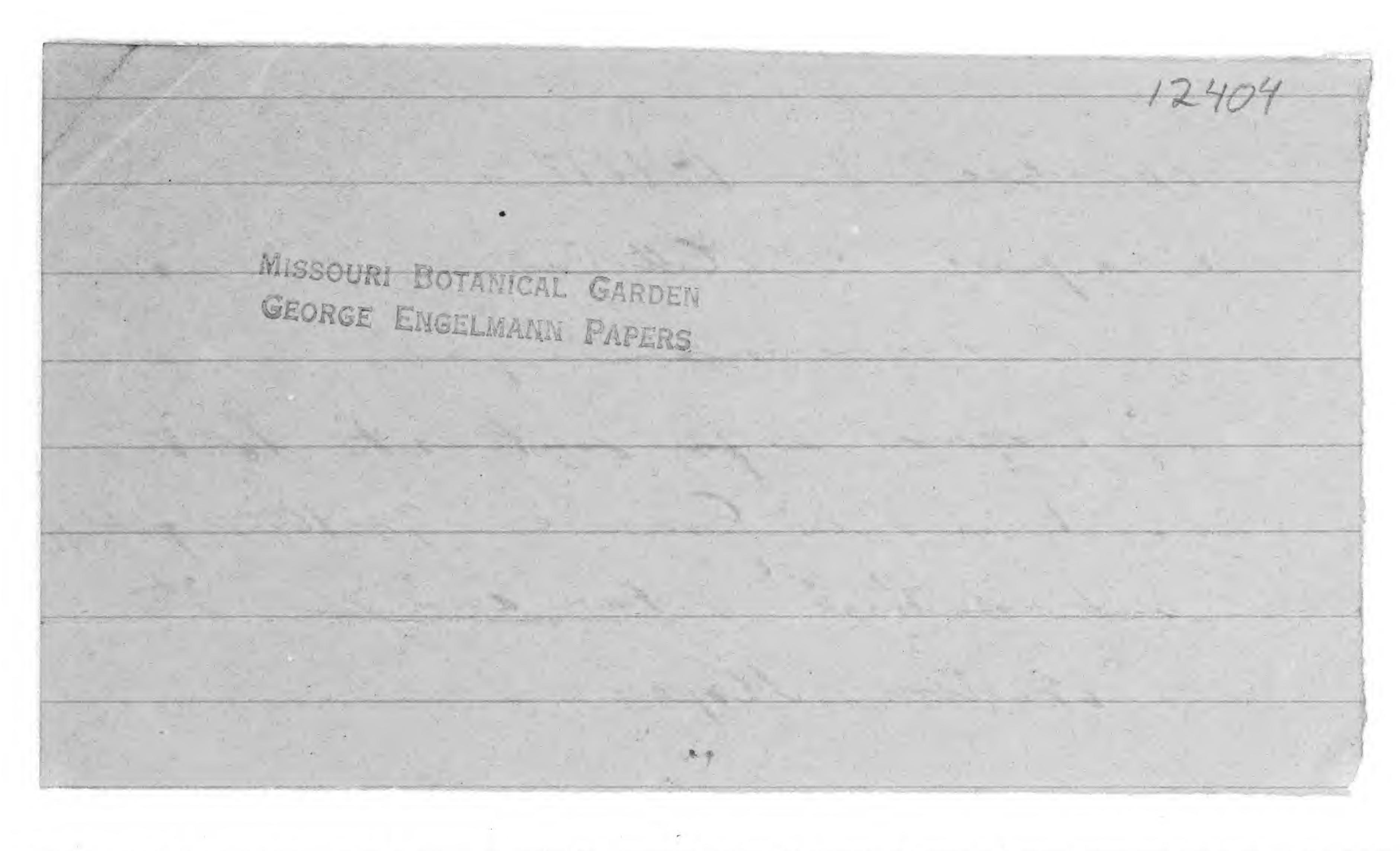


CHS. A. PILLEY, Secretary. EDWIN HARRISON, Vice-President. JULES VALLE, President. Greice Iron Mountain Company, No 941 NORTH SECOND STREET, Dear Sir -Fernit me to thank you for your kindness in supplying me with the information

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Bandegee Der 14-1888; Vivea pungers in Platte Canon, puiling ite or more concentive yours. Tire punger as for south as the South Josh of Olis Grande 9-10,000 getals I be not think I have som it on the Witem degrer.







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Ared. Milad. march 1863 p. 76. Her Menglesi ver Parry ana Ed. André is Illustration Notifile Devemb. 1876 Mitea pungens lyder - a leller to Hooker, published in Gandraus Chromite March 15 1879
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in Moview of the American Spring, with short chanters

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